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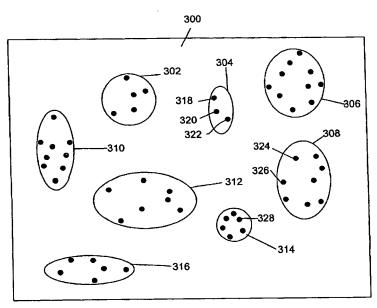
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[Continued on next page]

(54) Title: UNIT FOR AND METHOD OF DETECTION A CONTENT PROPERTY IN A SEQUENCE OF VIDEO IMAGES



(57) Abstract: A method of detection of a content property in a data stream on basis of low-level features is proposed. The method comprises: determining (202) a behavior feature (e.g. 320) from a sequence of the low-level features; determining (204) to which one of the predetermined clusters (304) of behavior features (318-328) within a behavior feature space (300) the determined behavior feature (320) belongs; determining a confidence level of the content property presence on basis of the determined cluster (304) of behavior features and the determined behavior feature; and detecting the content property on basis of the confidence level of the content property presence.



PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F17/30

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#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  $IPC\ 7\ G06F$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

	ENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Category °	Chation of document, with indication, where appropriate, of the following passages		
x	LI D ET AL: "Classification of general audio data for content-based retrieval" PATTERN RECOGNITION LETTERS, NORTH-HOLLAND PUBL. AMSTERDAM, NL, vol. 22, no. 5, April 2001 (2001-04), pages 533-544, XP004233004 ISSN: 0167-8655 page 535 -page 539 figures 2-4	1-13,17	
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X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance      E* earlier document but published on or after the international filing date      L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O* document referring to an oral disclosure, use, exhibition or other means      P* document published prior to the international filing date but later than the priority date claimed	<ul> <li>*T° later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X° document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y° document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;° document member of the same patent family</li> </ul>
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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Denoual, M

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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHANG T ET AL: "Audio content analysis for online audiovisual data segmentation and classification" IEEE TRANSACTIONS ON SPEECH AND AUDIO PROCESSING, IEEE INC. NEW YORK, US, vol. 9, no. 4, May 2001 (2001-05), pages 441-457, XP001164214 ISSN: 1063-6676 page 443, left-hand column, line 21 -page 444, right-hand column, line 40 page 450, left-hand column, line 9 -page 451, right-hand column, line 7 figure 1	1-13,17
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